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Abstract of the Disclosure

A plurality of Raman amplifiers are positioned on a transmission line over which a multi-wavelength light is transmitted. Each of the Raman amplifiers uses a plurality of pump lights $\lambda 1$ through $\lambda 4$. When a fault occurs in a pump light source producing the pump light $\lambda 3$ in a particular Raman amplifier among the plurality of Raman amplifiers, the power of the pump light $\lambda 3$ is raised in another or other Raman amplifiers.